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Accident, Fire, Life, Sickness,
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Representing Cash Assets
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For freight and passage apply to
WELCH & CO., Agents, San Francisco
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—AGENTS, HILO.

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National Cane Shredders,

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Alex Cross & Sons' Sugar Cane
and Coffee Fertilizers

COMPLETION OF THE BIG KOHALA DITCH

**Impressive Ceremonies in Celebration of Event—Gates
Opened and Ditch Christened by Mrs. Samuel Par-
ker—Addresses by Prominent Personages—Ditch a
Feat of Engineering—Means Much to Kohala.**

Kohala, June 11.—"I christen
the Kohala Ditch, May you bring
blessings, happiness and prosperity
to the people of Kohala."

In those words Mrs. Samuel Par-
ker today set the waters of Hono-
kane to flowing down upon the rich
lands of Kohala. The ceremonies
of the opening of the ditch were
impressive and very beautiful.
The place selected was at the head
of Kalawa Gulch, where the ditch
breaks out through a long tunnel
under the mountain, crossing the
gulch by an aqueduct only to enter
the side of the mountain again and
run sparkling down into the dark.

Over the entrance to this second
tunnel an arch had been erected,
bearing the words "Aloha," white
ribbon upon the red, with bands
of mail twining down the sides.

PERFECT DAY—CROWD LARGE.

The day was perfect—Kohala
weather, a strong cool wind and a
blue sky, flecked with drifting
clouds from which fell occasional
raindrops. The rolling uplands
shone almost golden green in the
sunlight, and the cane tops nodded
and whispered among themselves
of the water that was soon to rush
down to them, cool and refreshing.

All Kohala, and some parts of
Honolulu were gathered about the
arch in the head of Halawa Gulch,
and upon the viaduct, and small
boys and Japanese laborers and
Hawaiian men and women in gay
colors, picturesque with the long
leis they wore, hung in clinging
clusters upon the steep and grassy
slopes of the gulch, like bees
swarmed upon a lichen-covered
tree stump. And to the chattering
of the water running down through
the spillway and falling into the gulch
far below made a rhythmic accom-
paniment. This was the flood that
was to be turned into the ditch to
mark the formal dedication of the
waterway to the purpose of its con-
struction.

THE EXERCISES.

The exercises began appropri-
ately with prayer. The President,
John U. Hind, of the Kohala Ditch
Company, Vice-President Sam Par-
ker and Secretary Abe Lewis made
speeches upon the completed work.
These were followed by Secretary
A. L. C. Atkinson, whose speech
electrified the audience, and after
him Governor John Baker was
called and climbed the bank to
make his speech.

He spoke in Hawaiian and from
the effect upon the natives in the
crowd, pleasingly. In effect, he
said that the Hawaiians had tried
once, long ago, to bring water to
these lands, and had failed. Now
the haoles had come and all things
had yielded to them. "So," said
the speaker, "here we have the
water on the land. The trouble
was, in the old times, that the Ha-
waiians had worked only in the
dark, resting in the daytime. The
haoles worked in the darkness and
daylight, regardless of all things,
and they accomplished results."

It is a fact that, a long time ago,
one of the Kamehamehas—prob-
ably the first of them—tried to carry
water in ditches and tunnels here,
his tunnel-diggers digging them-
selves to the surface at short inter-
vals to note whether they were go-
ing true to line, but his project
failed.

After Governor Baker had spok-
en, Mrs. Parker was handed a
bottle of champagne, from which
red ribbons fluttered, and, smash-
ing it upon the drawhead, christ-
ened the ditch and pulled the lever
that sent 20,000,000 of gallons of
water coursing down the long ditch.

Twenty millions of gallons daily
is the amount of water now run-
ning in the ditch, filling it to a
depth of two feet. The carrying

capacity of the ditch is 70,000,000
of gallons daily, and this amount
will be running in it when it is
completed. The ditch when it is
finished, will be 21 miles long, and
will carry the water of Honokane
stream and its tributaries to the
lands of Kohala.

FIVE MILES OF TUNNEL.

That portion of the ditch which
is completed and opened is 14 miles
long, and of this 5 miles are tun-
nels. The 7 miles to be completed
will be finished in November. The
completed portion of the ditch will
supply more than enough water to
fill the contracts already made with
plantations in Kohala. These
plantations, parts of which are under
the ditch, comprise approxi-
mately 13,000 acres of cane land,
of which 10,000 acres are under
the ditch.

The plantations that have con-
tracted for water are Nihihi, Hala-
wa, Kohala, Union Mill Co., and
Hawi, and besides these there are
about 6000 acres of White estate
lands, good for cane and now made
available by the fact that water
can be put upon them.

DESCRIPTION OF DITCH.

The ditch beginning in Kohala
mountains at an elevation of 1050
feet, runs in a general northerly
course, falling to 950 feet in 21
miles. When it is completed it
will cost, approximately, \$600,000.
It is lined on the sides with either
cement or stone for the entire dis-
tance. Where cement is used, the
concrete is 6 inches thick. Where
the facing is of stone, a native
stone resembling trap rock is used,
this split into blocks 8x14x17
inches. This stone splits very
easily, the Jap laborers making the
blocks from the rough stone for
five cents a block.

The ditch, in the open, is eight
feet wide on the bottom, eleven feet
wide at the top, and approximately
5 feet deep. Where it pierces the
hills in the tunnels, it is 6½ feet
in width at the bottom, widening
to 8 feet at a height of 5 feet with
on arch running through two feet,
making the extreme height of the
tunnels 7 feet. At intervals along
the tunnels, side tunnels run to the
surface, these having been used to
dump the material taken out. The
tunnels, mostly through porous
rock are lined also with concrete.

The boring of these tunnels is an
impressive feat. The openings in
some places are almost inaccessi-
ble now and most of them were
nearly so until trails were carved
out of the mountain sides. Six
men were killed and many mules,
by falling down these precipices.
As was remarked by one of the
party who visited the upper lands
of the conduit the day before the
opening, it is "Grand Canyon
scenery." Little is to be seen of the
conduit. It is under the forests,
winding its way in the courses best
suited to the levels calculated by
the engineers.

IMPORTANCE TO KOHALA.

The work of the construction
has continued for several years, but
it is done now—and well done.
The ditch, indeed, is the biggest
thing in Kohala. It will double
the yield of the cane lands under it,
and bring into cultivation almost
twice the acreage that is now avail-
able. It has great weirs at short
intervals, with time clocks, for
measuring the water taken out,
and from these weirs the planta-
tions can take the water wherever
they will upon the lands lower
down. Every plantation in the
district is now engaged in the con-
struction of systems of flumes and
ditches and reservoirs to use and
save the water.

The same company that built
the Kohala ditch is engaged in the

construction of a system of ditches
designed to carry the waters of
Waipio stream and its tributaries
down to the lands of Hamakua.
There will be two ditches in the
Hamakua system, the upper one
23 miles long to cost \$200,000; and
a lower one, 27 miles long, to cost
\$800,000. These ditches will make
available a great region not now
properly supplied with water, and
increase very largely the yield of
the land now in sugar cane. It
will be a long time, however, before
these ditches are completed, al-
though work upon them is going
steadily forward. Work is likewise
progressing steadily upon that part
of the Kohala ditch not yet com-
pleted.

A peculiar incident of the con-
struction of the Kohala Ditch has
been the amount of sickness among
the Japanese tunnel-builders.
"Powder consumption," they call
it, and it is said to be caused by
the fumes released by burning
nitro-glycerine. Its symptoms are
muscular rheumatism, and great
bodily emaciation, but the patient
recovers after a few weeks in the
open air.

Economy in Alcohol.

"The denatured alcohol act is
one of the best things for Hawaii
than most ever happened," said a
plantation manager when he heard
that the president had signed the
bill making it a law.

"In the one item of fuel alone it
will make a difference of thousands
of dollars. Every plantation pro-
duces considerable quantities of
molasses, which is now turned
into the irrigating ditches to be
used as a fertilizer. This molasses,
if distilled into alcohol, would fur-
nish a large part of the fuel needed
on the plantation, and at a great
saving over the present cost of the
oil or coal. The cost of distilling
alcohol is comparatively slight.
The great item of cost in alcohol in
the past has been the internal reve-
nue of ninety cents a gallon or such
a matter. Alcohol from the molasses
of the sugar mills can be pro-
duced at a great deal less price
than gasoline costs, and it beats
gasoline as a fuel."

Honolulu Plantation, which be-
cause it refines its own sugar pro-
duces a larger amount of molasses
than any other, it is believed can
produce enough denatured alcohol
to reduce its fuel bills very materi-
ally. It is said that it is possible
to make a saving in fuel by the
substitution of denatured alcohol,
of thousands and thousands of
dollars on such a plantation as Ewa
or Oahu where there is consider-
able pumping done.

One of the elements to be consid-
ered, if it shall be decided that the
manufacture of denatured alcohol
would be a good thing for the
plantations, would be to determine
whether there should be one or a
few central distilleries for the
distillation of the molasses of all
of the plantations, or whether there
should be a distillery as a part of
the plant of each plantation.—Star.

Lava Has Its Uses.

It is being pointed out for the
consolation of the people about
Vesuvius that lava, like adversity,
has its uses. It makes, for instance,
a very beautiful glass of extraordi-
nary lightness. But curiously
every volcano sends off a special
brand that can only be discovered by
experience. The rich plains of
Sicily owe much of their fertility to
decomposed lava, and in South
America volcanic soil is found to be
the best in the world for coffee
growing, though nervous planters
would rather take the soil without
the volcano.—Rx.

Do Not Neglect the Children.

At this season of the year the
first unnatural looseness of a child's
bowels should have immediate
attention. The best thing that can
be given is Chamberlain's Colic,
Cholera and Diarrhoea Remedy
followed by castor oil as directed
with each bottle of the remedy.
This remedy can always be de-
pended upon, and when reduced
with water and sweetened is pleas-
ant to take. Sold by Hilo Drug Co.

HAWAIIAN AFFAIRS.

The Hilo Breakwater—Lighthouses —Islanders in Washington.

Washington, D. C., May 27.—
There have been several prominent
Hawaiian visitors here this week—
ex-Minister Castle, who came from
Boston and other New England
points and who returns to New-
York in a day or two; Mr. and Mrs.
B. F. Dillingham, who came over
from New York for three or four
days; and William Alanson Bryan,
who is on the way to attend a con-
vention of National Museums in
New York.

Mr. Castle has been cordially
greeted by his numerous old time
friends in Washington. He and
Judge Hatch made a visit to the
Capitol and there met several of
the prominent lawmakers. Judge
and Mrs. Hatch gave a dinner in
his honor Friday evening.

Mr. Dillingham's errand here
was largely in connection with the
survey for the Hilo breakwater.
He and Representative Burton, chair-
man of the House Committee on
Rivers and Harbors, were given a
dinner by Mr. George B. McClellan
Monday evening last. Mr. Dill-
ingham had opportunity to explain
the situation at Hilo carefully for
the information of Mr. Burton,
whose committee will eventually
have to pass upon appropriations
for the improvement of that harbor,
provided the survey results in a
favorable report on the project.

Mr. Bryan, as is understood in
Honolulu, is interested in securing
a careful and comprehensive survey
of the Hawaiian islands, ethno-
graphically, ethnologically, and
otherwise. He arrived here yester-
day and is at the Shoreham.
Before he departs he hopes for an
interview with President Wood-
ward of the Carnegie Institute,
whom he wishes to interest in this
big project. He will also probably
visit Pittsburg to talk with Carnegie
Institute officials there. It is ne-
cessary to interest capitalists in the
work, which will eventually cost
considerable money.

LAW LIBRARY FOR DOLE'S COURT.

Through the good offices of Col.
"Pete" Hephurn chiefly, an appri-
ation of \$10,000 has been put
into the Sundry Civil Appropriation
bill by the House Committee for a
law library for the federal court at
Honolulu. The item is in a very
promising way to become law.—
Washington correspondence to
Honolulu Advertiser.

Scene of Comic Opera.

Frank Pixley, dramatist, poet
and story writer, returned to Chi-
cago yesterday with a valise bulg-
ing with the manuscript of a just
completed comic opera, the scenes
of which are laid in the Hawaiian
Islands, says the Chicago Record-
Herald.

In the writer's pockets jingled
the brass checks for nine trunks
crammed with kimonos, paintings,
Buddhist idols and other Japanese
local color that will furnish inspira-
tion for a subsequent production.

Mr. Pixley wrote "The Prince
of Pilsen" in Nienna and Italy,
"King Dodo" in the Bermudas,
"Woodland" in Southern Califor-
nia and the Sandwich Islands, and
"The Burgomaster" at the Union
League Club in Chicago. He has
not selected a name for the new
play written in Japan, nor the lo-
cality where he will immerse him-
self next winter to write the
Japanese play.

How About Harbor Survey?

Geo. B. McClellan has written
to Lieut. Slattery, asking when
the report of Hilo harbor survey
might be expected to reach Wash-
ington, also when the present con-
tract work in Honolulu harbor
would be finished, and whether
any of the \$400,000 of the old ap-
propriation for that work would
be available for any part of Light-
house Point. The Delegate's
secretary further states that Senator
Perkins had assured him that he
would have the \$40,000 for Hono-
lulu lights inserted in the general
deficiency bill.—Advertiser.

Subscribe for the TRIBUNE. Sub-
scription \$2.50 a year.

Pure blood makes the skin
clear, smooth, healthy.

Impure blood blotches the skin with
pimples, sores, boils, eczema, eruptions.
Mr. G. W. Burtner, Keokuk, Va., tells
of the bad condition he was in, and how
he was cured by

Ayer's Sarsaparilla

"Shortly after leaving college, I was
troubled with a skin disease which showed
itself first at the ankles. Physicians pro-
nounced it eczema, and treated me for that



complaint. The eruption crept slowly up
my limbs, and on the body, until it enveloped
the whole frame. It gave me infinite
trouble, with constant itching, crusting off of
dry scales, and a watery liquid which would
exude from under the scales. I treated it
for over three years unsuccessfully, and was
unable to check it until I began using Ayer's
Sarsaparilla. I used three bottles of this
medicine, and was completely cured—my
skin becoming as smooth and clear as
before."

There are many imitation
Sarsaparillas.
Be sure you get "AYER'S."

Prepared by Dr. J. C. Ayer & Co., Lowell, Mass., U. S. A.

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Direct Line between San Fran-
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Ship FALLS OF CLYDE
Bark RODERICK DHU
Bark ANNIE JOHNSON

And other Specially Chartered vessels
make this trip with at least one of these
boats each month, carrying both Freight
and Passengers.

The Passenger rate by the Enterprise
between San Francisco and Hilo has been
reduced to \$60.

For dates of sailing and terms,
Call upon,

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Warehouse, Waialae. Tel. 86 L

Hilo Railroad Co.

Short Route to Volcano

TIME TABLE

In effect July 1, 1905.

Passenger Trains, Except Sunday.

7	9	STATIONS	8	10
A.M.	P.M.		A.M.	P.M.
7:00	2:30	Hilo.....ar	9:40	5:45
7:05	2:35	Waialae.....ar	9:45	5:40
7:12	2:35	Olana Mill.....ar	9:50	5:35
7:30	3:15	ar.....ar	9:55	5:30
7:46	3:30ar	10:00	5:25
8:00	3:55	Mount. V.w.....ar	10:05	5:20
8:20	4:15	ar. Glenwood.....ar	8:30	4:45

I	3	SUNDAY:	2	4
A.M.	P.M.		A.M.	P.M.
8:00	2:30	Hilo.....ar	10:48	5:15
8:06	2:36	ar.....ar	10:44	5:11
8:25	2:55	Olana Mill.....ar	10:38	4:56
8:32	3:02ar	10:34	4:52
8:49	3:19ar	10:50	4:36
9:03	3:35	Mount. V.w.....ar	9:55	4:25
9:25	3:55	ar.....ar	9:35	4:05